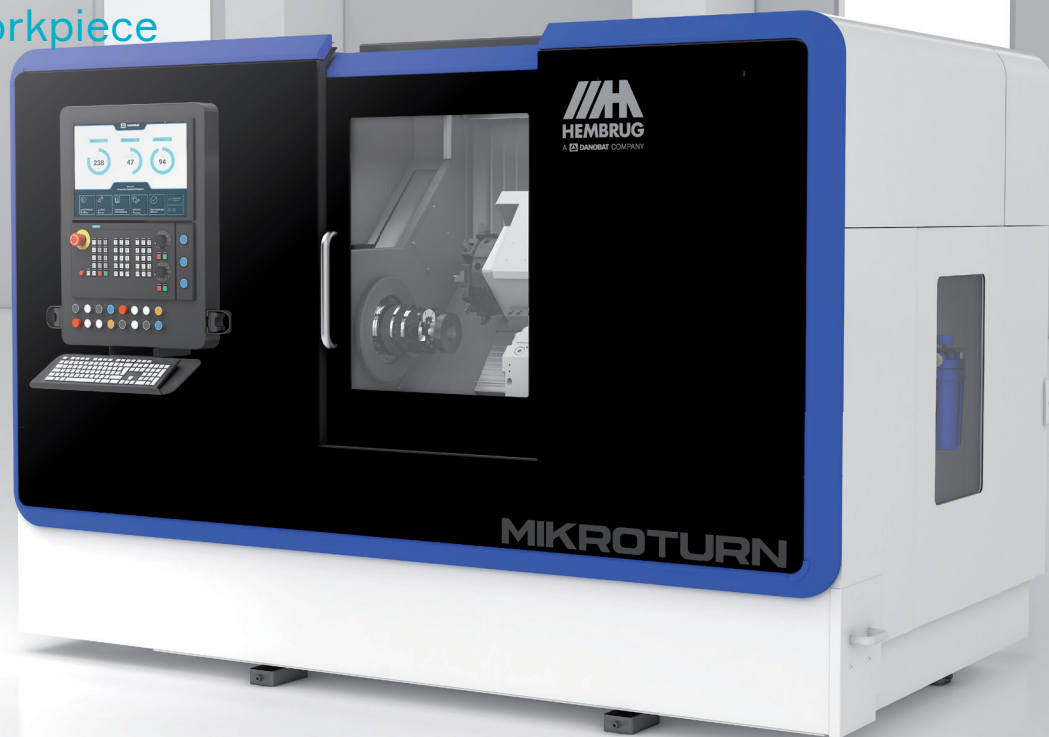


# NEW! The Mikroturn® 3rd Generation

The answer to meet an ever increasing demand for productivity, accuracy and lower cost per workpiece



## THE MIKROTURN® 3rd GENERATION

The Mikroturn® 3rd Generation is a further development of the existing Mikroturn® 100 and features a complete new and modern design. It incorporates many improvements in the field of thermal stability, machine stiffness and accuracies that have been implemented in the Mikroturn® 100 in recent years.

### Highlights

- A new modern design
- The highest accuracy levels on the market
- Reduced footprint up to 30%
- Easy to equip with automation
- Up to 70% reduced noise level thanks to the latest generation pumps and motors

## CORE TECHNOLOGY

- Fully hydrostatic, high precision hard turning machine with a rigid natural granite machine base.
- Wear free hydrostatic X- and Z-slide having 0.2 micron repeatability and 1 micron positioning accuracy.
- Wear free hydrostatic main spindle having <0.1 micron run-out.
- Siemens 840D SL CNC control having 0.01 micron resolution.

## ACHIEVABLE TOLERANCES

- Form  $\leq 2$  micron
- Dimensional 1 - 2 micron
- Surface finish (Ra) 0.1 - 0.4 micron

## FULLY CUSTOMIZABLE

**With a wide range of available options, the machine can be configured to any production requirement.**

### Automation

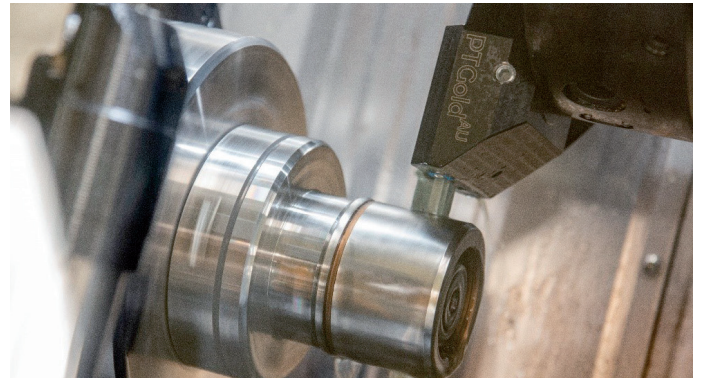
Easy to equip with the in-house developed gantry loader. Ensuring an even greater productivity with lower per-part-cost.

### Surface finishing options

When a surface quality and structure is required that cannot be achieved with hard turning, a grinding spindle or stone finish technology can be integrated. This saves process steps, costs and result in a very low surface finish ( $< 0.3 \mu\text{m Rz}$ ) and form accuracy ( $< 2 \mu\text{m}$ ).

### Other options, among others

- Air or magnetic operated clamping units
- CNC controlled precision tailstock
- 8, 12 or 16 position tool turret
- Linear tooling
- Live tooling
- Tool presetting probe
- Part probing system
- Automatic machine door opening
- Chip conveyor
- Fanuc 32i CNC control



## TECHNICAL CHARACTERISTICS

Max. machining diameter	Ø380 mm
Between centres	Ø130 x 350 mm
Max. part weight	50 kg / 100 kg*
Max. spindle speed	2* / 4 or 8000* rpm
Rapid travers rate	12 m/min
Max. feed rate	0-12 m/min
Dimensions	3048 mm x 2247 mm x 2078 mm
Weight	6.5t

\*Optional



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